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# APPARATUS, METHOD, AND ARTICLE OF MANUFACTURE FOR VISUALIZING STATUS IN A COMPUTE ENVIRONMENT

Inventor: WAGNER LORELEI (US); NOCERA DAVID

Applicant: INNOVATIVE SYSTEM DESIGN INC (US);

(US)

WAGNER LORELEI (US); (+1)

EC: IPC: G06F

Publication info: WO2004063905 - 2004-07-29

# System and method for evaluating information aggregates by visualizing associated categories

Inventor: ELDER MICHAEL D [US]; JHO JASON Y [US]; Applicant: IBM [US]

(+3)

EC: 1PC: G06F17/00

Publication info: US2004088323 - 2004-05-06

# 3 Graphical method and system for visualizing performance levels in time-varying environment

Inventor: UCKUN SERDAR (US)

**Applicant:** 

£C: H04M3/51

፤ዎር፡ H04M3/00; H04M5/00

Publication info: US2003002653 - 2003-01-02

### Method and apparatus for replaying and visualizing post-performance metrics for a complex heterogeneous data space

Inventor: HAND LEONARD S [US]; WASHBURN JEFFERY Applicant: IBM [US]

R [US]

£C: G05B23/02; G06F11/32P; (+4)

IPC: G05B15/00

Publication info: US2002177907 - 2002-11-28

### Method and apparatus for visualizing metrics in a data space

Inventor: HAND LEONARD S [US]; WASHBURN JEFFERY Applicant: IBM [US]

R [US]

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#### REAL-TIME PERFORMANCE MONITORING AND MANAGEMENT SYSTEM

Inventor: BUDHRAJA VIKRAM S [US]; DYER JAMES D

Applicant: ELECTRIC POWER GROUP LLC [US];

[US]; (+1)

BUDHRAJA VIKRAM S [US]; (+2)

EC:

IPC: G06F

Publication info: WO2005015366 - 2005-02-17

#### Real-time performance monitoring and management system

Inventor: BUDHRAJA VIKRAM S [US]; DYER JAMES D

Applicant:

[US]; (+1)

EC.

IPC: H02J13/00

Publication info: US2005033481 - 2005-02-10

# 3 Real-time collaboration and workflow management for a marketing campaign

Inventor: WAGNER TODD R [US]; PLOURDE ROBERT W Applicant: ACCENTURE GLOBAL SERVICES GMBH [US]

[US]; (+5)

ξC: G06F17/60A; G06F17/60B2

ያ**ዖር:** G06F17/60

Publication info: US2004254860 - 2004-12-16

### Real-time monitoring, analysis, and forecasting of trunk group usage

Inventor: BOGGS RONALD L [US]; COX DEAN W [US]; Applicant:

(+2)

EC:

IPC: G01R31/08

Publication info: US2004240385 - 2004-12-02

#### **SWIRELESS COMMUNICATIONS SYSTEM WITH ENHANCED TIME SLOT**

Inventor: CAIN JOSEPH BIBB

Applicant: HARRIS CORP [US]

EC:

TPC: H04B7/212

Publication info: WO2004095734 - 2004-11-04

### System and method for risk-adjusting indicators of access and utilization based on metrics of distance and time

Inventor: MCNAIR DOUGLAS S [US]

Applicants

EC:

IPC: G06F17/60; G01P11/00; (+3)

Publication info: US2004193451 - 2004-09-30

# 7 Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code

Inventor: HWANG CHAN-SOO [KR]; TAROKH VAHID

Applicant: SAMSUNG ELECTRONICS CO LTD [KR]

[US]; (+3)

EC: H04B7/06C2; H04L1/06T

IPC: H04B1/02; H03C7/02; (+2)

Publication info: US2004072594 - 2004-04-15

### Method and apparatus for integrating data aggregation of historical data and real-time deliverable metrics in a database reporting environment

Inventor: FEDEROV SERGEY [US]

Applicant: GENESYS TELECOMM LAB INC [US]

EC: H04M3/51T

IPC: H04M3/51; G06F17/60

Publication info: **EP1401181** - 2004-03-24

### Real-time worldwide wireless golf competition network

Inventor: MCCLAIN SCOTT ANDREW [US]

Applicant:

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EC: A63B71/06

IPC: A63B57/00; G06F17/00

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Publication info: US2004023734 - 2004-02-05

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Wireless communication system with enhanced time slot allocation and interference avoidance/mitigation features and related methods

Inventor: CAIN JOSEPH BIBB [US]

Applicant: HARRIS CORP CORP OF THE STATE [US]

£C: H04B7/04S; H04B7/26T; (+2)

፤ዎር፡ H04Q7/24; H04B7/212

Publication info: US2004028018 - 2004-02-12

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#### **RESULT LIST**

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### Methods and systems for assigning channels in a power controlled time slotted wireless communications system

Inventor: BALACHANDRAN KRISHNA [US]; KANG

Applicant:

JOSEPH H [US]

EC: H04B7/005B2U; H04Q7/38C4; (+1)

IPC: H04B1/00; H04B17/02; (+1)

Publication info: US2004171401 - 2004-09-02

### 12 Method and apparatus for determining time varying thresholds for monitored metrics

Inventor: CORLEY CAROLE RHOADS [US]; JOHNSON

Applicant: IBM [US]

MARK WALLACE [US]

EC:

ያዎር: G06F15/173

Publication info: US2004088406 - 2004-05-06

### 13 Image analysis for image compression suitability and real-time selection

Inventor: OLDCORN DAVID [GB]; POMIANOWSKI

Applicant:

ANDREW [GB]; (+1)

IPC: G06K9/36; G06K9/46

Publication info: US2004081357 - 2004-04-29

### **REAL-TIME COLLABORATION AND WORKFLOW MANAGEMENT FOR** A MARKETING CAMPAIGN

Inventor: LUDWIG-VOGEN ALEXIS A (US); CORUGEDO Applicant: ACCENTURE GLOBAL SERVICES GMBH (CH);

GEORGE R (US); (+5)

LUDWIG-VOGEN ALEXIS A (US); (+6)

e

EC: G06F17/60A; G06F17/60B2 1PC: G06F

Publication info: W003036420 - 2003-05-01

#### 15 A method and system for estimating an expected travel time

Inventor: HENDRIKS ANTONIUS JOHANNES [NL]; LIM Applicant: SIEMENS AG [DE]

KARIN [NL]

EC: G01C21/26 ያዎር: G01C21/26

Publication info: EP1378721 - 2004-01-07

### 16 Mechanism for reducing recovery time after path loss in coded data communication system having sequential decoder

Inventor: LOELIGER HANS-ANDREA [CH]; TARKOY Applicant: ADTRAN INC [US]

FELIX [CH]; (+1)

EC: H03M13/29; H03M13/39 TPC: H03D1/00

Publication info: US2003026359 - 2003-02-06

### Real-time distribution of imaging metrics information

Inventor: KUNZ ROBERT J [US] Applicant:

EC: H04N1/00C3 IPC: G06F15/00; B41J1/00

Publication info: US2003160996 - 2003-08-28

### 18 Real time statistical computation in embedded systems

Inventor: GOKER TURGUY [US] Applicant: SEAGATE REMOVABLE SOLUTIONS LL [US]

εc: G05B23/02 IPC: G06F15/00; G05B13/02

Publication info: US6785632 - 2004-08-31

#### Min-time / race margins in digital circuits

inventor: LINDKVIST HANS (SE) Applicant:

EC: IPC: G06F9/45; G06F17/50

Publication info: US2003159118 - 2003-08-21

# 20 System and method for implementing a metrics engine for tracking relationships over time

Inventor: GOODWIN JAMES PATRICK [US]; KRAENZEL Applicant:

CARL JOSEPH [US]; (+2)

EC:

IPC: G06F15/173

Publication info: US2003135606 - 2003-07-17

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#### **RESULT LIST**

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### Mobile ad-hoc network and methods for performing functions therein based upon weighted quality of service metrics

Inventor: KENNEDY ROBERT ALEX; THOMAS JAY

Applicant: HARRIS CORP

BILLHARTZ; (+1)

IPC: H04Q7/38

Publication info: AU2003204643 - 2004-01-22

### 2 Method and apparatus for monitoring and displaying routing metrics of a network

Inventor: SRIKRISHNA DEVABHAKTUNI [US]

Applicant:

EC:

TPC: H04L12/26

Publication info: US2005036487 - 2005-02-17

# 3 TRAFFIC NETWORK FLOW CONTROL USING DYNAMICALLY MODIFIED METRICS FOR REDUNDANCY CONNECTIONS

Inventor: PATRICK MICHAEL W; GUO JUNJING; (+1)

Applicant: GEN INSTRUMENT CORP

EC:

IPC:

Publication info: AU2003237099 - 2003-11-10

# **METHODS, APPARATUSES AND SYSTEMS FACILITATING DETERMINATION OF NETWORK PATH METRICS**

Inventor: BAYS ROBERT JAMES

Applicant: PROFICIENT NETWORKS INC A DELA

EC:

የዶር: G06F15/16; G06F15/173

Publication info: AU2003223592 - 2003-11-10

#### 5 Dynamic deployment of services in a computing network

Inventor: BRITTENHAM PETER J [US]; DAVIS DOUGLAS Applicant: IBM [US]

B [US]; (+2)

EC:

IPC: H04L12/00

Publication info: TW591909 - 2004-06-11

#### Service-driven network planning method

Inventor: POWER GERARD [US]

Applicant:

EC: G06F17/60C; H04Q7/36P

IPC: G06F17/60

Publication info: US2005010468 - 2005-01-13

### OPTIMAL ROUTING IN AD HAC WIRELESS COMMUNICATION NETWORK

Inventor: JOSHI AVINASH (US)

Applicant: MESHNETWORKS INC (US); JOSHI AVINASH

(US)

EC:

IPC: H04Q7/00; H04L12/56

Publication info: WO2004114690 - 2004-12-29

### 8 System and method to improve the network performance of a wireless communications network by finding an optimal route between a source and a destination

Inventor: JOSHI AVINASH [US]

Applicant: MESHNETWORKS INC [US]

EC:

IPC: H04L12/28

Publication info: US2004252643 - 2004-12-16

# 9 System and method for predicting network performance and position location using multiple table lookups

Inventor: RAPPAPORT THEODORE S [US]; SKIDMORE Applicant:

ROGER R [US]

EC:

1PC: H04B1/00; H04B7/00; (+1)

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Publication info: **US2004259555** - 2004-12-23

Re-using information from data transactions for maintaining statistics in network monitoring

Inventor: DIETZ RUSSELL S [US]; MAIXNER JOSEPH R Applicant: HI FN INC [US]

[US]; (+1)

£C: H04L12/24C4; H04L12/26M

IPC: G06F15/173

Publication info: US6839751 - 2005-01-04

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Event Propagation Conditions in Timing Analysis - Hakan Yalcin (Correct) and R.K. Brayton, Integrating Functional and **Temporal** Domains in Logic Design: The False Path Problem 1. The PC for the **event** on input x occurring at **time** is ,since input y is required to have a the Longest Viable Path in a Combinational **Network**,Proc. 26th Design Automation Conf.1989, pp. www.eecs.umich.edu/~hakan/PS/trep95.ps

Abstract Specification of Object Interaction - Hartmann, al. (1993) (Correct) (1 citation) abstraction. One focus is on the specification of **temporal** object behaviour [SJ92, JSHS91, SJH94]2 1 because a restriction as defined here is not always **real**istic in **real** applications. During specification towards the precise modelling of behaviour over **time** of objects [SSE87, SFSE89, FSMS91, EDS93]The wwwiti.cs.uni-magdeburg.de/~itiall/ftp/papers/db/93/hs93.ps.gz

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Solving Small TSPs with Constraints - Caseau, Laburthe (1997) (Correct) (20 citations) problem is not its direct applicability, since few real problems may actually be described as TSPs, but problems, especially when side-constraints such as time windows are added. Results about practical www.dmi.ens.fr/users/laburthe/papers/iclp97.ps.gz

Failure Mode Assumptions and Assumption Coverage - David Powell (1992) (Correct) (59 citations) and Related Properties in Transition Systems: a **Temporal** Logic to deal with Fairness"Acta Informatica, assumptions are less likely to be violated in the **real** system. However, as illustrated by the example of be implemented within the system (e.g.space or **time**, replication or diversification, Similarly, ftp.laas.fr/pub/Publications/1991/91462.ps

A Bayesian Approach to Learning Causal Networks - Heckerman (1995) (Correct) (22 citations) to decision nodes, represent what is known at the time decisions are made. Relevance arcs, which point to A Bayesian Approach to Learning Causal Networks David Heckerman heckerma@microsoft.com March ftp.research.microsoft.com/pub/tr/tr-95-04.ps

Spike Train Processing By A Silicon Neuromorph: The Role Of.. - Northmore, Elias (Correct) to input spike frequencies, discriminate temporal patterns of spikes, and detect correlations systems in hardware for generating behavior in real environments can best be approached at the present Activation of synapses of the same type close in time and space produced local saturation of potential,



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<u>Utility-Theoretic Heuristics for Intelligent Adaptive.. - Mikler, Honavar, Wong (1996) (Correct) (1 citation)</u> control decisions as measured by some **performance metric**. This requires an understanding of the complex network load stays Armin Mikler is currently a **post**-doctoral fellow at the Scalable Computing to meet a diverse set of often conflicting **performance** requirements (e.g.average message delay, www.cs.iastate.edu/~honavar/Papers/TR95-14.ps

<u>MacFS: A Portable Macintosh File System Library - Dinda, Necula, Price (1998) (Correct)</u> implementations in multiprogrammed environments. **Performance** measurements show that our implementation is

volume information block con5 sumed far too much time. Therefore we now keep the volume information code is that both trees are files, which can **dynamic**ally grow and are not necessarily contiguous. The reports-archive.adm.cs.cmu.edu/anon/1998/CMU-CS-98-145.ps

Reactive Synchronization Algorithms for Multiprocessors - Lim (1994) (Correct) (40 citations) conditions are hard to design because their **performance** depends on unpredictable run-time factors. we will present **data** from experiments run on the **real** hardware in Section 6. Test&Set w/ backoff their **performance** depends on unpredictable run-time factors. The designer of a synchronization ttp.cag.lcs.mit.edu/papers/reactive.ps.Z

Probabilistic Logical Information Retrieval for Content.. - Rölleke, Blömer (Correct)

data. We load this data into the external database Postgres and get 69 MB of external relations including evaluating the retrieval strategies. We present performance measurements and the evalution of the link structure, and attribute values at the same time. 2. The prototypical system HySpirit serves as Is6-www.cs.uni-dortmund.de/~roelleke/papers/97/HIM/paper.ps.gz

<u>Visualizing Geometric Uncertainty of Surface Interpolants - Lodha, Sheehan, Pang.. (1996)</u> (Correct) (3 citations)

2 2 which has also been used as a fairness **metric** [MS94]Other more sophisticated criteria have **Visualizing** Geometric Uncertainty of Surface Interpolants and designers is the task of constructing models of **data** sets obtained by instruments or created by users. ftp.cse.ucsc.edu/pub/reinas/papers/gi96.ps.gz

The Design of a Completely Visual Object-Oriented...- Citrin, Doherty, Zorn (1994) (Correct) (4 citations) the semantics of Cand thus will have an easier time understanding Vipr. In our representation, aspects Object-oriented languages have relied on simple visualization tools such as class browsers to aid features such as polymorphism, inheritance, and dynamic dispatch. While these features allow complex ftp.cs.colorado.edu/pub/techreports/zorn/VOOP-VIPR.ps.Z

On Partitioning Dynamic Adaptive Grid Hierarchies - Manish Parashar (1996) (Correct) (22 citations)

Num Procs DAGH Structure Level Efficiency Load Metric I 8 0 0.0 6268 1 0.870095 13294 2 0.969519 49908 (entire composite list)Each processor first posts receives for all incoming data and then at each level. 5.2 Representation Overheads Performance overheads due the DAGH/SDDG representations www.cs.utexas.edu/users/dagh/./Papers/hicss.ps

<u>Consistent Supersequences And Transversal Graphs: An.. - Middendorf, Timkovsky (1998) (Correct)</u> problem proving that it can be solved in polynomial **time** with one positive or one negative string and is problem is strongly NP-hard. Fraser applied the **dynamic** programming approach to solve both problems in of Karlsruhe, D-76128 Karlsruhe, Germany Star **Data** Systems Inc.Commerce Court South 30 Wellington www.dcss.mcmaster.ca/reports/ps/trpt9807.ps

Computation with Nonlinear Dynamical System - Manganaro, de Gyvez (Correct)

the feasibility of ultrascale computation in real-time. Massive computation can easily be achieved the feasibility of ultrascale computation in real-time. Massive computation can easily be achieved by Computation with Nonlinear Dynamical System Gabriele Manganaro 1 Jose Pineda www.stw.nl/programmas/prorisc/workshop/proc/psz/manganaro.ps.gz

Optimizing the Transmit Power for Slow Fading Channels - Ligdas, Farvardin (Correct) delay and number of states on the bit-error-rate performance of the proposed policies under slow and 100 msec, a value that is unacceptable for many real-time twoway communication applications. This information is transmitted over channels whose timevarying behavior causes severe fluctuations of the winwww.rutgers.edu/~pascal/papers/it.ps

Control of Virtual Motion Systems - Majid Moghaddam (1993) (Correct) (4 citations) system, we cast the problem in terms of a performance index. This approach permits application of humans and robots in a fashion that feels most "realistic, that is, like locomoting on ground. After from their head mounted displays. At the same time, however, they would not go anywhere, because they www.cim.mcgill.ca/~arlweb/publications/iros93 vms.ps

Augmented Space: Bringing the Physical Dimension into.. - Not, Petrelli, Stock.. (1997) (Correct) (2 citations) constraints (i.e. audio tapes force a predefined path) or because the descriptions are not space, involving perceptual experiences with real objects and physical tiredness, or the movement the object in front of the visitor. Adaptive and dynamic hypertext technology may be exploited to tailor ecate.itc.it:1024/petrelli/publications/HT97-final.ps.gz

Text Recognition from Grey Level Images Using Hidden Markov.. - Aas, Eikvil, Andersen (1995) (Correct) (1 citation)

with LLNCS style www.nr.no/research/bild/PostScript/CAIP.95.Aas.ps.gz level images and treating an entire word at the time. The features are found from the grey levels of of models is found for each word by the use of dynamic programming. 1 Introduction One of the www.nr.no/research/bild/PostScript/CAIP.95.Aas.ps.gz

Programming and Network Issues for Communicative Computer Systems - Thorelli (Correct) decoder and player, will be demonstrated at the poster session 10 The Dirichlet Problem This of stream communication is essential for high-performance distributed applications. The semantics of requirement is the ability to express and enforce real-time constraints. EDA (Extended Dataflow www.it.kth.se/labs/cs/cs-group/articles/Nutek.ppr.ps.gz

Issues In Measuring The Benefits Of Multimodal Interfaces - Flanagan, Marsic (1997) (Correct) (1 citation) the solution (as judged by experts) constitute the metrics. Parameters include single and double interface task at hand. But, traditionally, we measure the performance of machine aids singly (usually in a update Figure 1: Information flow in a distributed real-time collaborative system, geographically www.caip.rutgers.edu/disciple/Publications/icassp-97.ps.gz

Design and Implementation of Runtime Reflection in.. - Roman, Kon, Campbell (1999) (Correct) (10 citations) the mechanisms for runtime recon guration. The performance of distributed applications is greatly aected [1]TAO was primarily targeted at Avionics hard real-time systems in which the environment parameters not react in front of these changes. Most of the times, applications have enough knowledge to decide choices.cs.uiuc.edu/2k/papers/icdcs99.ps.gz

A TMS320C40 based Speech Recognition System for Embedded.. - Obermaier, Rinner (1998) (Correct) The classification is based on some distance metric between the features and the templates. The Texas Instruments. The recognition rate and the performance are experimentally evaluated using a test has been a very active research area for a long time, and much progress has been achieved within the www.iti.tu-graz.ac.at/en/people/rinner/../../publications/papers/obermaier98.ps.gz

Time-Critical Planning and Scheduling Research at.. - Dean, Greenwald.. (Correct) resources by using expectations about the performance of decision-making procedures and preferences to algorithms that is widely cited in the areas of real-time problem solving [8, 5]We have provided a Time-Critical Planning and Scheduling Research at Brown www.mcs.drexel.edu/~lgreenwa/cs-94-41.ps.gz

Calibrating the COCOMO II Post-Architecture Model - Sunita Devnani-Chulani (Correct)

Output. Keywords Cocomo Ii, Cost Estimation, Metrics, Multiple Regression. 1 Introduction The 1 Calibrating The Cocomo Ii Post-Architecture Model Sunita Devnani-Chulani Bradford modes and two COCOMO 81 cost drivers: turnaround time and modern programming practices. This paper sunset.usc.edu/TechRpts/CalPostArch.ps

Prioritization in Parallel Symbolic Computing - Kale, Ramkumar, Saletore, Sinha (1993) (Correct) (5 citations) fault is called a redundant fault. The efficiency metric in Table 2 reports the percentage of faults which loss in quality. There is an interesting postscript to the research on state-space search. As that scheduling is an important determinant of performance for many parallel symbolic computations, in nscp.upenn.edu/parallel/environments/charm/papers/Symbolic\_LNCS93.ps.gz

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Expressing and Enforcing Timing Constraints in a.. - DiPippo, Ginis.. (1996) (Correct) (1 citation) or product implementation that supports faster performance. For instance, several U.S. military systems 02881 russ@nosc.mil lastname@cs.uri.edu Abstract Real-time distributed applications such as automated www.infosys.tuwien.ac.at/Research/Corba/archive/special/rj-tr97-252.ps.gz

On Two-Tape Real-Time Computation and Queues - Vitányi (Correct) -On Two-Tape Real-Time Computation And Queues\* Paul M.b. Vitanyi -On Two-Tape Real-Time Computation And Queues\* Paul M.b. Vitanyi Centre www.cwi.nl/~paulv/papers/jcss84.ps

Effective Compiler Support for Predicated Execution .. - Mahlke, Lin, Chen, .. (1992) (Correct) (132 citations) Roger A. Bringmann Center for Reliable and High-Performance Computing University of Illinois from the entire region must be examined each time a particular path through the region is entered. associated with each node and arc represent the dynamic frequency each basic block is entered and each cardit.et.tudelft.nl/~steven/ilp/mahlke92.ps.qz

Sensor-Based Control Architecture for a Car-Like Vehicle - Laugier, Fraichard.. (1998) (Correct) (3 citations) mobile in a dynamic workspace"He was a Postdoctoral Fellow in the Manipulation Laboratory of performed and the task planner is reinvoked. The performance of these approaches in terms of robustness. three functional components: a set of basic real-time skills, a reactive execution mechanism and a www.inrialpes.fr/sharp/people/frchard/documents/laugier.etal:ar:99.ps.gz

Visualizing the Performance of Higher-Order Programs - Oscar Waddell (1998) (Correct) (1 citation) code with the original source. Presenting profile metrics to the user is also a challenge when working Visualizing the Performance of Higher-Order Programs Oscar Waddell graph in Figure 4. 5 Related Work In the realm of higher-order languages there have been few www.cs.indiana.edu/~owaddell/papers/paste98.ps.gz

System Support for OpenGL Direct Rendering - Kilgard, Blythe, Hohn (1995) (Correct) (5 citations) The techniques described provide "maximum performance" rendering for OpenGL. Some of the issues are contention for graphics resources such as screen real estate. There are three classes of contention that And the pixel data returned is copied three times, as opposed to a single copy in the direct reality.sgi.com/mik/direct.ps

Frames, Objects and Relations: Three Semantic.. - Norrie, Reimer.. (1994) (Correct) system research has focussed on issues of performance and concurrent access to large data sets and of objects for which the functions referred to are really defined, rather than operating on the most the class explicitly as it can be derived at access time. The trade-off here is between fast access to www.globis.ethz.ch/publications/docs/1994d-nrlrs-krdb.ps.gz

A Distributed Table-Driven Route Selection Scheme for. - Chou, Shin (1994) (Correct) find a "qualified" route, if any, that meets the performance requirement of the requested channel without Route Selection Scheme for Establishing Real-Time Video Channels Chih-Che Chou and Kang G. rtcl.eecs.umich.edu/outgoing/ccchou/table94.ps.Z

Comparison of Name Resolution Algorithms - Phillips (1997) (Correct) set of input parameters, two performance metrics are computed: ffl the number of hops from the Given a particular set of input parameters, two performance metrics are computed: ffl the number of hops before these algorithms could be deployed in real networks. One refinement could be to limit the www-scf.usc.edu/~grahamph/694project.ps.gz

### Dynamic Reducts as a Tool for Extracting Laws from Decisions.. - Skowron, Synak (1994) (Correct) (14 citations)

table) for which the final decision proposed was really poor, i.e. such that the absolute value of the of the indicator, duration indicates the amount of time that the indicator has been at that value or close Dynamic Reducts as a Tool for Extracting Laws from ftp.ii.pw.edu.pl/pub/Reports/43 94.ps.Z

The Design of Eiffel Programs: Quantitative Evaluation. - Abreu, Esteves, Goulão (1996) (Correct) (2 citations)

Programs: Quantitative Evaluation Using the MOOD Metrics Fernando Brito e Abreu Rita Esteves, Miguel iii) in the specification, by changing pre or post-conditions, effectivation of a feature declared examples follow: feature {NONE} cartesian(a, b: REAL) is normal" method do x :a y :b end albertina.inesc.pt/ftp/pub/esw/mood/MoodPage/../PAPERS/US\_LETTER/tools96.ps

An Agent-oriented Model for Software Evaluation - Sita Ramakrishnan (1997) (Correct) perspective. A pluggable component for metrics has been derived by focussing on such as cohesion, coupling, complexity, cost and performance metrics to fit into the strategy of pluggable over schedule leading to cost overruns or run-time performance issues, 2.2 Software Code Analysis In www.sd.monash.edu.au/research/publications/1997/TR97-3.ps

CCS Dynamic Bisimulation is Progressing - Montanari, Sassone (1991) (Correct) (1 citation) can actually replace each other consistently in any real system, guaranteeing software modularity and each other in the presence of dynamic, i.e. run time, re)configurations. We provide an algebraic Of Mfcs `91, Lncs 520, Springer-Verlag, 1991 Ccs Dynamic Bisimulation Is Progressing Ugo Montanari And www.dcs.qmw.ac.uk/~vs/cv/../ftp/dynamic-mfcs91.ps.gz

### Spectroscopy of the roAp star - Cir li (Correct)

out while IKB was in receipt of an Australian Postgraduate Award, and was also supported by funds from the final fit since there is very little real continuum at the resolution of our data (1.5 A) which are described in Section 2.2. The time series analysis of these is explained in Section www.obs.aau.dk/~srf/papers/acir2.ps.gz

Analysis of a Reliable Data-transfer Protocol for Broadband.. - Olah, de Groot (1995) (Correct) TIOS Group, Univ. of Twente, July 1994. 5] J. Postel (ed.Transmission control protocol. RFC-793, the faster reuse of sequence numbers ffl the performance of the protocol is affected through the services to end users. This potential can only be realized if the protocols at the upper layers are also www.elec.uow.edu.au/conferences/95-79.ps

Customizing Mobile Applications - Schilit, Theimer, Welch (1993) (Correct) (26 citations) PARC's mobile computing environment and initial performance evaluations are described. 1 Introduction In contrast to the Unix practice of one time initialization at program start up, dynamic Corporation welch@parc.xerox.com Abstract The dynamics of mobile systems require applications to ftp.parc.xerox.com/pub/schilit/usmlic-93-schilit.ps.Z

Hierarchical Solution Techniques for Realistic Rendering - Sillion (Correct) open problems are the analysis of the relative performance of the various subdivision criteria, the Hierarchical Solution Techniques for Realistic Rendering Francois Sillion CNRS iMAGIS can produce an approximate solution in a very short time, and continuously improve it over time. This w3imagis.imag.fr/Publications/fxs/S95qc.ps.qz

Cooperative Multiagent Search for Portfolio Selection - Parkes, Huberman (Correct) about the future dynamics of stock prices, its ex post efficiency is highly dependent on the accuracy of hint exchange, achieves a further increase in performance. Finally we show that communication is we show that communication is redundant in a more realistic market that satisfies the constraints between www.cis.upenn.edu/~dparkes/ascma.ps

Speedup of Band Linear Recurrences in the Presence of Resource .. - Haigeng Wang (1992) (Correct) [12, 19, 8, 11, 2] have demonstrated good performance subject to preserving loop-carried of loops with loop-carried dependences require real-time response and have a very high frequency of recurrences. Our schedules have better execution times than the fastest previously published parallel www.ics.uci.edu/pub/pub/wang/ics92rt1.ps.Z

Anomalies in Simulations of Nearest Neighbor Ballistic Deposition - D'Souza (1997) (Correct) situations which may cause long crossover times or a change in exponents are investigated. For a prototypical model for interface growth and for dynamic scaling behavior in non-equilibrium systems. BD window size for the longest times simulated. The data from all five substrate lengths are included. www.im.lcs.mit.edu/raissa/bdrng.ijmpc.printed.ps

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Dynamic Expression Trees - Cohen, Tamassia (1993) (Correct) (4 citations)

Dynamic Expression Trees Robert F. Cohen Roberto

or cutting the corresponding trees. Our **dynamic data** structure uses linear **space** and supports queries trees. Our **dynamic data** structure uses linear **space** and supports queries and updates in logarithmic ftp.cs.brown.edu/pub/papers/theory/exptrees.ps.Z

<u>Design of Graph ZPL: Extensions to ZPL to Handle Irregular..- Vassily Litvinov (Correct)</u>
ZPL: Extensions to ZPL to Handle Irregular and **Dynamic Data** Structures Vassily Litvinov October 25, Extensions to ZPL to Handle Irregular and **Dynamic Data** Structures Vassily Litvinov October 25, 1995 www.cs.washington.edu/homes/vass/Links/GraphZPL-paper.ps

<u>Dynamic Data Mining - Raghavan, Hafez (Correct)</u> **Dynamic Data** Mining Vijay Raghavan and Alaaeldin **Dynamic Data** Mining Vijay Raghavan and Alaaeldin Hafez 1

www.cacs.usl.edu/Publications/Raghavan/HR00.pdf

Hyperform: Rapid Prototyping of Hypermedia Services - Wiil (1995) (Correct) (3 citations) of the storage subsystem. Hyperform [1,2,3] is a dynamic, open and distributed multiuser hypermedia applications must store and retrieve hypermedia data, and thus developers must deal with the complexity ftp.njit.edu/pub/bieber/cacm/wiil-sidebar.ps.Z

JETNET 3.0 - A Versatile Artificial Neural Network Package - Peterson, Rögnvaldsson.. (1993) (Correct) Algorithms Gradient descent assumes a flat metric where the learning rate j in eq. 7) is identical things, the following options are included. ffl Dynamic Learning Rates ffl Saturation Measurement ffl Keywords: pattern recognition, jet identification, data analysis, artificial neural network Nature of www-dapnia.cea.fr/Spp/Experiences/OPAL/bib/../opalcern/jetnet/jetnet30.ps.gz

Making Real-Time Reactive Systems Reliable - Marzullo, Wood (1991) (Correct) (12 citations) must be properties. 2. Sensors, whose values are **dynamic** for a given entity. A sensor attribute can be describes the application using an object-oriented **data** model and writes the control program referencing ftp.cs.ucsd.edu/pub/faculty/marzullo/TR90-1155.ps.Z

What Is the BEST Spectrum Estimate? - Wei (1997) (Correct)
really well, especially for signals with large dynamic range Key References ffl D. J. Thompson,
ffl Q2: Why time-limited? A2: Because of finite data. J g)f) Z 0:5 Gamma0:5 D N (f \Gamma f
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An Asymptotical Variational Principle Associated with the...- Lemaire (1996) (Correct) (2 citations) is not at our disposal independently from the **data** f but is defined from this **data**. Indeed, the for a proper closed convex function f on a Hilbert **space** is characterized in the set of minimizers of f 90C25. 1. Introduction Let X be a real Hilbert **space** endowed with inner product h:i and associated ftp.maths.tcd.ie/pub/EMIS/journals/JCA/vol.3\_no.1/j5\_56.ps.gz

<u>The first three-dimensional reconstruction of a...- Sault, Oosterloo... (1997) (Correct)</u>
emission, point-source simulations suggest a **dynamic** range limit of 1200 and a fidelity limit of 90.
Jupiter -techniques: interferometric -methods: **data** analysis 1. Introduction Astronomical

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possible to sample this three-dimensional Fourier space adequately, and so reconstruct the object in ftp.atnf.csiro.au/pub/people/toosterl/www/jup3D.ps.gz

History-Rich Tools for Social Navigation - Wexelblat (1998) (Correct) (1 citation) montages that we take advantage of constantly, our data remains sterile. When we open a word processing help us make better use of the information and the space. I am investigating how interaction history can part of the problem is to characterize the problem space. We use six major dimensions to describe the area

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Multilevel Blocking and Prefetching for Linear.. - Garcia.. (Correct)

cache and the TLB are 32 cycles. 1.3 Performance metrics In this deliverable, we use two performance algebra computations, which access large amounts of data, is dependent on the behavior of the memory multiplication introduces a very large search space. In Part II the performance of the dense matrix ftp.wi.leidenuniv.nl/pub/APPARC/DELIVERABLES/HwA5b.ps.gz

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These results are further analyzed using locality **metrics** with instrumentation and simulation. 1
Unifying **Data** and Control Transformations for Distributed Shared
hypatia.dcs.qnw.ac.uk/data/edu/cs.rochester.edu/systems/94.tr542.Unifying\_data\_and\_control\_transformations.pa

I/O Optimal Isosurface Extraction (Extended Abstract) - Chiang, Silva (Correct) for the extraction of isosurfaces from volumetric data, by a novel application of the I/Ooptimal interval cis.poly.edu/chiang/iso-vis97.ps.gz

<u>Deriving Integrity Maintaining Triggers from Transition Graphs - Gertz, Lipeck (1993) (Correct) (22 citations)</u> In this paper, we show how to derive triggers from **dynamic** integrity constraints which describe properties to generate triggers from constraints as part of **data**base design and to utilize constraint ttp.informatik.uni-hannover.de/papers/1993/GL93a.ps.gz

<u>Providing Integrated Support for Multiple Development Notations - Grundy, Venable (1995)</u> (<u>Correct</u>) (3 citations)

of multiple notations and the implementation of **dynamic** support for them within an integrated ISEE. them within an integrated ISEE. First, conceptual **data** models of different analysis and design notations www.cs.waikato.ac.nz/~jgrundy/papers/caise95.ps.Z

Object-Oriented Specification and Stepwise Refinement - Saake, Jungclaus, Ehrich (1991) (Correct) (1 citation)

objects are modeled as processes of which certain dynamic characteristics of their internal state can be focus on certain aspects of system design (e.g. data structures or functionality or dynamics) and thus wwwiti.cs.uni-magdeburg.de/~itiall/ftp/papers/db/92/sje92.ps.gz

Component Configurer: A Design Pattern for Component-Based.. - Rosa, Silva (1997) (Correct) components connection, aiming at supporting ad-hoc dynamic reconfiguration and the migration of components of users. Agenda Sessions will consult the agenda data by using this Agenda Manager. Configuration albertina.inesc.pt/~ars/ps/europlop97-1.ps

The Performance Potential of Data Dependence Speculation Collapsing - Sazeides (1996) (Correct) (5 citations)

An execution of a computer program defines a **dynamic data**flow or dependence graph, that reflects the The Performance Potential of **Data** Dependence Speculation &Collapsing Yiannakis einstein.et.tudelft.nl/~stamatis/pubs/confps/micro29.96.ps

On the Role of Inter-Component Dependence in Supporting...- Kon, Campbell (1998) (Correct) is still dicult to develop ecient, reliable, and **dynamic**ally con gurable component-based systems. the component. QoS-aware systems can use these **data** to enable proper admission control, resource to manage components running on a single address **space**, on dierent address **spaces** and processes, or choices.cs.uiuc.edu/2k/papers/CompConfig-TR.ps.gz

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The Average X-Ray/gamma-Ray Spectra Of Seyfert Galaxies From .. - Andrzej Zdziarski (Correct) with the weights corresponding to the length of time of each observation. The OSSE and Ginga spectra spectrum in the 10-30 keV and 50-300 keV ranges to be harder and softer, respectively, than the 2-500 Kev Spectra Of Seyfert Galaxies, Using The Data From Ginga And Gro Osse. Our Sample Contains 3 osse-www.nrl.navy.mil/print53.ps

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### Synthesis Of Trill - Shih (Correct)

of Italian r. The trill is a complex acoustic event with at least two distinct sections but so far and segmenting the speech database, which is time consuming, and it also increases the size of the or in voiceless consonant clusters. This wide range of variations will pose a problem for the www.bell-labs.com/projects/tts/trill.ps

in the Subject line: On Digital's EASYnet: CRL::TECHREPORTS On.. - This Work (Correct) synthesis and recognition, will be handled by time-shared general purpose processors, while the DSP, chips will have a place in synchronous, low latency data handling, but increasingly, the computation of have a few unique architectural features that have set them apart from general purpose processors: ffl crl.dec.com/pub/.dec/CRL/tech-reports/92.10.ps.Z

Daily management of an earth observation satellite.. - Lemaitre, Verfaillie (Correct) of photographs, respect of camera transition times, limitation of the instantaneous data flow) optimization problems. In this framework, a range of algorithms is proposed, some of them fully transition times, limitation of the instantaneous data flow)select a subset of candidates which meets ftp.cert.fr/pub/lemaitre/Papers/97-ILOG.ps

Using Communication to Reduce Locality in Multi-Robot Learning - Mataric (1997) (Correct) (3 citations) agents whose impact differs and varies over time. Both problems can be addressed by using simple within a limited area (i.e.the perceptual range) the behavior they were performing, as well as rules. Communication is used to share sensory data to overcome hidden state and reinforcement to www-robotics.usc.edu/~maja/publications/aaai97-mv.ps.gz

Evolution Characteristics of an Industrial Application Framework - Mattsson (Correct) provides functionality for mediation between network elements, i.e. telecommunication switches, and organization makes no distinction with respect to time reporting of the customization of the framework of the Mediation framework versions are in the range 10 000 to 20 000 hours. We present normalized www.ipd.hk-r.se/michaelm/papers/FwEvoChar.ECOOP99ws.pdf

The Use of Experts in Metrics Interpretation and Analyses - Wedde, Stalhane (2000) (Correct) data will give direct feedback on this view and eventually the need for an update. Figure 4: The role how can we change these processes and at the same time be sure that the changes are for the better? 133 The use of experts in metrics interpretation and analyses Kari Juul Wedde, Tor www.escom.co.uk/conference2000/wedde.pdf

An Experiment in Refactoring an Object Oriented CASE Tool - Boudjilda, Kim (Correct) modeller and the dynamic modeller. At that time, one year effort was expected to develop the Technique (OMT)This tool supports a wide range of features such as constructing the three models in the corresponding repository and collecting metrics data. A version 1.x of OODesigner has been www.loria.fr/~nacer/PUBLI/Mcseai98.ps.gz

Dunedin New Zealand - Software Metrics Data (Correct)

three statistical methods and one neural **network** method. In order to illustrate the impact of Figure 3 illustrates the behavior of errors over **time**. Note that while the testing error is shown, this to approximate a non-linear one over a particular **range**. ts 75NumRepor ns 50NumScree 1000 rs) Effort(hou divcom.otago.ac.nz/infosci/publctns/complete/papers/dp9911ag.pdf.gz

JBOOMT: Jade Bird Object-Oriented Metrics Tool - Tao Xie Wanghong (Correct)
design selection, design metrics data collection, visualization of design structure, and display of
model can be displayed to metrics user. At same time user can easily tailor the thresholds and default
JBOOMT: Jade Bird Object-Oriented Metrics Tool Tao XIE, Wanghong YUAN, Hong MEI, Fuqing
www.cs.washington.edu/homes/taoxie/JBOOMT.pdf

Talking Vs Taking: Speech Access To Remote Computers - Yankelovich (1994) (Correct) (2 citations) information, and you have access to your usual **networked** environment, complete with any shared experiment with speech interface design ideas. Our **eventual** goal is to allow users to telephone their Sun mail message with all the location information? For **times** like these, remote access to your computer can be www.sunlabs.com/research/speech/publications/chi94/CHI94Short.ps

Beyond Depth-First: Improving Tabled Logic Programs through...- Freire (1996) (Correct) (9 citations) generator choice point is laid down for it. It will eventually generate an answer (p(2,3) in node 9)which these new applications run efficiently in terms of time and space may require the use of different 0.06 to 15.7 seconds, whereas for XSB v. 1.5, they range between 0.09 and 4007.8 seconds. 6 Conclusion www.cs.sunysb.edu/~tswift/webpapers/plilp-96.ps.gz

Constructive Theory Refinement in Knowledge Based Neural. - Parekh, Honavar (1998) (Correct) (1 citation) Theory Refinement in Knowledge Based Neural Networks Rajesh Parekh &Vasant Honavar Artificial www.cs.iastate.edu/~honavar/Papers/parekh-iicnn98.ps

A Lyapunov Bound for Solutions of Poisson's Equation - Glynn, Meyn (1996) (Correct) (3 citations) see Glynn [12] These results also hold for some **network** models. See for example Meyn and Down [20] and Markov processes evolving in discrete or continuous **time**, on a general state space. We develop a Lyapunov or ZZ evolving on a locally compact separable **metric** space X, whose Borel oe-algebra shall be denoted www.stanford.edu/~glynn/Fish.PS

<u>Parallel Volume Rendering in the AVS Framework - Skinner, Corrie, Mackerras (Correct)</u>
discusses our experiences using the Advanced **Visualization** System (AVS) 6] for parallel volume **visualization** package which allows users to build **networks** of modules (either built-in or user supplied) to
process, typically results in long rendering **times** for all but the smallest **data sets**. Parallel
cap.anu.edu.au/cap/bibliography//KSBCPM98.ps.gz

Software Design for Nonlinear Mixed Effects - Bates Pinheiro (Correct)

?plot(Soybean, outer =T) Figure 2 helps **visualizing** the differences in leaf weight between the several levels of a continuous covariate, usually **time** or dose. Further, these measurements are grouped presents many challenging problems. The **data** can **range** from relatively small **data sets** with simple cm.bell-labs.com/cm/ms/departments/sia/NLME/IASC\_paper.ps

Visualizing Vector Information in Ocean Environments - Kelly Gaither (Correct)

Visualizing Vector Information in Ocean Environments

Meaningful scientific visualization of time-varying, three-dimensional flow fields remains a as well. Flow Lines: Flow lines encompass the range of particle traces displayed in flow www.erc.msstate.edu/~kelly/POSTSCRIPT/oceans95.ps.gz

Exact Learning and Data Compression with a Local...- Ricci, Avesani (Correct) and curve detection. IEEE Transaction on Neural Networks, 4(4)636-649, 1993. results in a great speed up of performance at query time. 1 Introduction Nearest neighbor algorithms (NN) user should choose an initial value for fi in the range [0:6 1] and then optimize ff taking into account www.ai.univie.ac.at/icml\_ws/ricci.ps.Z

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